



Atty. Docket No.: 25436/1150 PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Sorge, et al.
Serial No.: 09/338,855
Filed: June 23, 1999
Entitled: "Methods of Enriching for and
Identifying Polymorphisms"

Examiner: Chakrabarti, A.

Group Art Unit: 1655

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Mark J. FitzGerald

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Signature of Person Mailing Paper

Commissioner for Patents
Washington, D.C. 20231

TRANSMITTAL LETTER

Enclosed for filing in the above-identified patent application, please find the following documents:

1. Response to Office Action mailed February 28, 2001;
2. Amendment Transmittal Letter (includes Petition for Extension of Time);
3. Exhibit "A";
4. Check in the amount of \$445.00 for the requisite fee; and
5. Return Post Card.

The Commissioner for Patents is hereby authorized to charge any additional fees or credit any overpayment in the total fees to Deposit Account No. 16-0085, Reference No. 25436/1150.
A duplicate of this transmittal letter is enclosed for this purpose.

Respectfully submitted,

Date: August 28, 2001

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AMENDMENT

Dear Sir:

This is filed in response to the Office Action mailed in the above-noted patent application on February 28, 2001. Kindly consider the following amendments and remarks.

In the Claims:

Please replace claims 1, 57 and 69 with amended claims 1, 57 and 69 as follows:

1. (Amended) A method of enriching for and identifying a nucleic acid sequence difference with respect to a reference sequence comprising:

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a) contacting a nucleic acid sample with a molecule comprising a sequence-specific binding activity under conditions which permit specific binding, wherein said sample comprises a subset of nucleic acid molecules having a sequence that binds to said sequence-specific binding activity, and wherein a bound subset of nucleic acid molecules is retained by the sequence-specific binding activity, such that the subset of bound nucleic acid molecules is enriched for molecules comprising the sequence recognized by the sequence specific binding activity; and

b) detecting a sequence difference with respect to a reference sequence in the subset of nucleic acid molecules,

wherein steps (a) and (b) enrich for and identify a nucleic acid sequence difference with respect to a reference sequence.